



C++

Programming Step-by-Step

Asadullah Shah



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C++ PROGRAMMING: STEP BY STEP

Editors

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23. REVIEW OF ARRAYS

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Abstract

An array is a series of elements of the same type placed in contiguous memory locations that can be individually referenced by adding an index to a unique identifier. That means that, for example, we can store 5 values of type `int` in an array without having to declare 5 different variables, each one with a different identifier. Instead of that, using an array we can store 5 different values of the same type, `int` for example, with a unique identifier. At some moment we may need to pass an array to a function as a parameter. In C++ it is not possible to pass a complete block of memory by value as a parameter to a function, but we are allowed to pass its address. In practice this has almost the same effect and it is a much faster and more efficient operation.

23.1 Introduction

This chapter has been dedicated to review the arrays by this the users will have better understanding for the same. Although arrays has been covered already but in this we try to, vector data type, a variation of array and vector data type (vector class) that is can is used when you need an array that grows dynamically.